

City of Sunnyvale
Ten Year Project Costs
by Project Category and Type

| Project Number | Project Name | Prior Years Actual | Revised Budget 2004-05 | Plan 2005-06 | Plan 2006-07 | Plan 2007-08 | Plan 2008-09 | Plan 2009-10 | Plan 2010-11 | Plan 2011-12 | Plan 2012-13 | Plan 2013-14 | Plan 2014-15 | Ten Year Plan Total | Project Grand Total |
|--|---|--------------------|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------|---------------------|
| <div> <div>Category: Special</div> <div>Type: Water</div> </div> | | | | | | | | | | | | | | | |
| 823360 | Ultra Low Flow Toilet (ULFT) Rebate Project | 265,158 | 34,842 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 300,000 |
| 824280 | Leak Detection Program | 0 | 36,011 | 0 | 0 | 31,212 | 0 | 0 | 33,122 | 0 | 0 | 35,150 | 0 | 99,484 | 135,495 |
| 824290 | Water Cost of Service Study | 0 | 81,603 | 0 | 0 | 0 | 0 | 26,859 | 0 | 0 | 0 | 0 | 29,942 | 56,801 | 138,404 |
| 824730 | Water System Infrastructure Planning | 0 | 51,565 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51,565 |
| 824810 | Downtown Water Line Engineering Study | 0 | 10,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10,000 |
| Total | | 265,158 | 214,021 | 0 | 0 | 31,212 | 0 | 26,859 | 33,122 | 0 | 0 | 35,150 | 29,942 | 156,285 | 635,464 |

Note: Projects with \$0 Grand Total have budgets in the second ten years of the Twenty Year Plan.

Project Information Sheet

Project: 823360 Ultra Low Flow Toilet (ULFT) Rebate Project

| | | | | | |
|--------------------------|----------------------------|---------------|-----------|----------------------|-----------------------------------|
| Category: | Special | Type: | Water | Department: | Public Works |
| Origination Year: | 2001-02 | Phase: | Completed | Project Manager: | Jim Craig |
| Planned Completion Year: | 2003-04 | % Complete: | 100 | Project Coordinator: | Jim Craig |
| Origin: | Staff | | | Interdependencies: | none |
| Element: | 3 Environmental Management | Goal: | 3.3D | Fund: | 455 Utilities |
| Sub-Element: | 3.1 Water Resources | Neighborhood: | City Wide | Sub-Fund: | 100 Water Supply and Distribution |

Project Description and Statement of Need

The Ultra Low Flow Toilets (ULFT) Rebate Project is part of a requirement under the California Urban Water Conservation Council's Best Management Practices (BMP 14) and in accordance with the development of water conservation programs under the City of Sunnyvale's Urban Water Management Plan 2000. The intent of this project is to provide residents of Sunnyvale with a direct rebate for purchasing and installing the new 1.6 gallons-per-flush toilets to reduce water consumption. Half of the rebate will be funded by this project, and the balance will be matched by the Santa Clara Valley Water District's Water Conservation Program. Although this program is not yet mandated by the State, it shows the City of Sunnyvale's interest in promoting real water conservation and may open the door for future funding of such programs through grants and low-interest loan programs offered by the Department of Water Resources and the U.S. Bureau of Reclamation.

This 2-year project is complete. If a similar project is needed in the future, it will be created at that time. The City no longer can provide incentives for replacement of toilets, but Santa Clara Valley Water District is still able to do it through grants.

Service Level

No service level effect

Issues

none

Project Financial Summary

| Financial Data | Prior Actual | Budget 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 10 Year Budget | Grand Total |
|------------------------|--------------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------|-------------|
| Project Costs | 265,158 | 34,842 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 300,000 |
| Revenues | | | | | | | | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transfers-In | | | | | | | | | | | | | | |
| Fund Reserves | | 34,842 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 265,158 | 34,842 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 300,000 |
| Operating Costs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Project Information Sheet

Project: 824280 Leak Detection Program

| | | | | | |
|--------------------------|----------------------------|---------------|-----------------|----------------------|-----------------------------------|
| Category: | Special | Type: | Water | Department: | Public Works |
| Origination Year: | 2003-04 | Phase: | Implementation | Project Manager: | Jim Craig |
| Planned Completion Year: | Ongoing | % Complete: | 0 | Project Coordinator: | Jim Craig |
| Origin: | Staff | | | Interdependencies: | Finance |
| Element: | 3 Environmental Management | Goal: | 3.1D.1 & 3.1G.4 | Fund: | 455 Utilities |
| Sub-Element: | 3.1 Water Resources | Neighborhood: | City Wide | Sub-Fund: | 100 Water Supply and Distribution |

Project Description and Statement of Need

As recommended by the California Urban Water Conservation Council and as identified in the City's adopted 2000 Urban Water Management Plan as Best Management Practice #3, leak detection and system water audits are to be performed every three years. Any water loss due to leakage, theft, under-billing of customers, faulty control systems, or any other reason represents revenue losses to the City. Follow up actions when leaks are located may include repairing leaky pipes and valves, replacement of water mains with a history of serious leaks, annual exercising of valves, and a corrosion control procedure (i.e. cathodic protection program). The primary benefit of early leak detection is catching a leak before it becomes a larger problem, resulting in more water lost. Leak repair also keeps leaks from deteriorating into large-scale leaks that can lead to system failures causing emergency conditions and compromising public safety. The City would benefit by decreased costs of large repairs from water main breaks, decreased capital costs for production, transport, storage, treatment, distribution, and wastewater treatment, as well as decreased costs for Operations and Maintenance, energy, chemicals, treatment, and labor (overtime).

This program was started in FY 03/04 and successful at identifying leaks along the 21 miles tested. We are currently awaiting approval for funding to complete 190 miles of leak detection for \$36,011 with carryover funds. The project will provide funding to do a leak detection assessment of about 150 miles of City pipes every 3 years at an estimated cost of \$30,000 per year.

Service Level

none

Issues

none

Project Financial Summary

| Financial Data | Prior Actual | Budget 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 10 Year Budget | Grand Total |
|------------------------|--------------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------|-------------|
| Project Costs | 0 | 36,011 | 0 | 0 | 31,212 | 0 | 0 | 33,122 | 0 | 0 | 35,150 | 0 | 99,484 | 135,495 |
| Revenues | | | | | | | | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transfers-In | | | | | | | | | | | | | | |
| Fund Reserves | | 36,011 | 0 | 0 | 31,212 | 0 | 0 | 33,122 | 0 | 0 | 35,150 | 0 | 99,484 | |
| Total | 0 | 36,011 | 0 | 0 | 31,212 | 0 | 0 | 33,122 | 0 | 0 | 35,150 | 0 | 99,484 | 135,495 |
| Operating Costs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Project Information Sheet

Project: 824290 Water Cost of Service Study

| | | | | | |
|--------------------------|----------------------------|---------------|-----------|----------------------|-----------------------------------|
| Category: | Special | Type: | Water | Department: | Finance |
| Origination Year: | 2003-04 | Phase: | Ongoing | Project Manager: | Tim Kirby |
| Planned Completion Year: | Ongoing | % Complete: | n/a | Project Coordinator: | Jim Craig |
| Origin: | Staff | | | Interdependencies: | Public Works |
| Element: | 3 Environmental Management | Goal: | 3.1E | Fund: | 455 Utilities |
| Sub-Element: | 3.1 Water Resources | Neighborhood: | City Wide | Sub-Fund: | 100 Water Supply and Distribution |

Project Description and Statement of Need

Every five years, the Utilities Division in the Department of Finance intends to perform a cost of service study of the water system to reallocate the costs of the City's water services among the various customer classes, based on their use of each service. Staff will work with a water finance specialist to develop a cost of service model and populate the model with current data. The study generates a cost of service for each customer class and recommends adjustments to the rate structure to ensure costs are recovered on an equitable basis from the different customer classes. This type of study has not been performed for the water system in many years. The initial project cost will be high, with future years being lower as a contractor will be able to work with an existing model.

Service Level

none

Issues

none

Project Financial Summary

| Financial Data | Prior Actual | Budget 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 10 Year Budget | Grand Total |
|------------------------|--------------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------|-------------|
| Project Costs | 0 | 81,603 | 0 | 0 | 0 | 0 | 26,859 | 0 | 0 | 0 | 0 | 29,942 | 56,801 | 138,404 |
| Revenues | | | | | | | | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transfers-In | | | | | | | | | | | | | | |
| Fund Reserves | | 81,603 | 0 | 0 | 0 | 0 | 26,859 | 0 | 0 | 0 | 0 | 29,942 | 56,801 | |
| Total | 0 | 81,603 | 0 | 0 | 0 | 0 | 26,859 | 0 | 0 | 0 | 0 | 29,942 | 56,801 | 138,404 |
| Operating Costs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Project Information Sheet

Project: 824730 Water System Infrastructure Planning

| | | | | | |
|--------------------------|----------------------------|---------------|-----------|----------------------|-----------------------------------|
| Category: | Special | Type: | Water | Department: | Public Works |
| Origination Year: | 2004-05 | Phase: | Completed | Project Manager: | Hira Raina |
| Planned Completion Year: | Ongoing | % Complete: | 100 | Project Coordinator: | Jim Craig |
| Origin: | Staff | | | Interdependencies: | none |
| Element: | 3 Environmental Management | Goal: | 3.1A | Fund: | 455 Utilities |
| Sub-Element: | 3.1 Water Resources | Neighborhood: | City Wide | Sub-Fund: | 100 Water Supply and Distribution |

Project Description and Statement of Need

Project provides funding for ongoing and future water infrastructure management, including funds for professional engineering services, materials, and project management hours.

Contract engineering professionals will provide hydraulic studies to verify that the water system for new developments is adequately designed and to give the City a real-time water distribution system model. Current operating procedures will be verified and historical records (block maps, GPS, etc.) will be maintained. The City does not have operating resources for these necessary tasks.

Starting in FY 2005/2006, this project will be moved to operating program 312 - Water Supply and Distribution.

Service Level

none

Issues

none

Project Financial Summary

| Financial Data | Prior Actual | Budget 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 10 Year Budget | Grand Total |
|------------------------|--------------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------|-------------|
| Project Costs | 0 | 51,565 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51,565 |
| Revenues | | | | | | | | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transfers-In | | | | | | | | | | | | | | |
| Fund Reserves | | 51,565 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 0 | 51,565 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51,565 |
| Operating Costs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Project Information Sheet

Project: 824810 Downtown Water Line Engineering Study

| | | | | | |
|--------------------------|----------------------------|---------------|-----------|----------------------|-----------------------------------|
| Category: | Special | Type: | Water | Department: | Public Works |
| Origination Year: | 2004-05 | Phase: | Planning | Project Manager: | Hira Raina |
| Planned Completion Year: | Ongoing | % Complete: | n/a | Project Coordinator: | Barbara Keegan |
| Origin: | Staff | | | Interdependencies: | none |
| Element: | 3 Environmental Management | Goal: | 3.1C | Fund: | 455 Utilities |
| Sub-Element: | 3.1 Water Resources | Neighborhood: | City Wide | Sub-Fund: | 100 Water Supply and Distribution |

Project Description and Statement of Need

This project involves a study to determine condition and appropriate water line size to service new Downtown redevelopment and the surrounding area.

Contract engineering professionals will provide hydraulic studies to verify that the water system for new developments is adequately designed and to give the City a real-time water distribution system model. It will also verify current operating procedures and maintain historical records (block maps, GPS, etc.). The City does not have operating resources to do all of these necessary tasks.

Service Level

The project will determine requirements to service adequately the new development in the Downtown area.

Issues

none

Project Financial Summary

| Financial Data | Prior Actual | Budget 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 10 Year Budget | Grand Total |
|------------------------|--------------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------|-------------|
| Project Costs | 0 | 10,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10,000 |
| Revenues | | | | | | | | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transfers-In | | | | | | | | | | | | | | |
| Fund Reserves | | 10,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 0 | 10,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10,000 |
| Operating Costs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |